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L23	l2 and (request$ near5(send$ or sent$ or deliver$ or transfer$))	1	L23
L22	l2 and (hardware$ or compatibl$)	1	L22
L21	banner advertisement	183	L21
L20	l2 and (banner$ or advertis$)	1	L20
L19	l2 and (mail$ or electronic$)	1	L19
L18	l2 and (sen$ or deliver$ or transfer$) near5 (information$ or data$ or program$ or plan$)	1	L18
L17	l2 and (sen$ or deliver$ or transfer$) near5 (plan$)	1	L17
L16	L15 and (perform$ or acts$)	1	L16
L15	l2 and (sent$ or send$ or transfer$ or deliver$)	1	L15

L14	l2 and (record$ or stor$ or sav$) near8 (data$ or program$)	1	L14
L13	l2 and (record$ or stor$ or sav$) near8 (data$ or program$) near9 (iformation$ near4 processing$)	0	L13
L12	l2 and execut$	1	L12
L11	l2 and rece$ near9(sen$ or transfer$ or deliver$)	1	L11
L10	(develop$ or creat$ or implement$ or generat$ or buil$ or mak$) near (information processing program)	6	L10
L9	(developer$ or programmer or user$ builder$) near5 (develop$ or creat$ or implement$ or generat$ or buil$ or mak$) near (information processing program)	0	L9
L8	(developer$ or programmer or user$) near5 (develop$ or creat$ or implement$) near (information processing program)	0	L8
L7	l2 and execut$ near9 (sent$ or send$ or transfer$ or deliver$)	1	L7
L6	l2 and charg$	0	L6
L5	L4 and execut$	1	L5
L4	6560771.pn.	1	L4
L3	L2 and execut$	1	L3
L2	6662207.pn.	1	L2
L1	5859637.pn.	1	L1

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Terms	Documents
(709/202).ccls.	721

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L3	709/202.ccls.	721	L3
L2	713/600.ccls.	579	L2
L1	717/100,101,116,107.ccls.	523	L1

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1 Developing and empirically evaluating robust explanation generators: the KNIGHT experiments ■

James C. Lester, Bruce W. Porter

March 1997 **Computational Linguistics**, Volume 23 Issue 1

Full text available: pdf(2.64 MB) Publisher Site Additional Information: full citation, abstract, references, citings

To explain complex phenomena, an explanation system must be able to select information from a formal representation of domain knowledge, organize the selected information into multisentential discourse plans, and realize the discourse plans in text. Although recent years have witnessed significant progress in the development of sophisticated computational mechanisms for explanation, empirical results have been limited. This paper reports on a seven-year effort to empirically study explanation ge ...

2 Technique for automatically correcting words in text ■

Karen Kukich

December 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 4

Full text available: pdf(6.23 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Research aimed at correcting words in text has focused on three progressively more difficult problems:(1) nonword error detection; (2) isolated-word error correction; and (3) context-dependent work correction. In response to the first problem, efficient pattern-matching and n-gram analysis techniques have been developed for detecting strings that do not appear in a given word list. In response to the second problem, a variety of general and application-specific spelling cor ...

Keywords: n-gram analysis, Optical Character Recognition (OCR), context-dependent spelling correction, grammar checking, natural-language-processing models, neural net classifiers, spell checking, spelling error detection, spelling error patterns, statistical-language models, word recognition and correction

3 Fast detection of communication patterns in distributed executions ■

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies**

on Collaborative research

Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

4 An audio input-output computer system for medical information

Michael Otten, Scott I. Allen, Perry Plexico, William C. White

August 1969 **Proceedings of the 1969 24th national conference**

Full text available: pdf(754.84 KB) Additional Information: full citation, abstract, references, citings, index terms

An experimental telephone-based input-output system, using low-cost audio response equipment, was implemented on a medium-sized real-time computer. This system enables update of audio vocabulary files from a remote telephone terminal, which is a major feature simplifying program and data base modification. Speech signals are processed with an analog-to-digital converter at the rate of 10,000 samples per second, compressed by a delta modulation program to one bit per sample, and stored on a ...

5 Human-computer interface development: concepts and systems for its management

H. Rex Hartson, Deborah Hix

March 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 1

Full text available: pdf(7.97 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Human-computer interface management, from a computer science viewpoint, focuses on the process of developing quality human-computer interfaces, including their representation, design, implementation, execution, evaluation, and maintenance. This survey presents important concepts of interface management: dialogue independence, structural modeling, representation, interactive tools, rapid prototyping, development methodologies, and control structures. *Dialogue independence* is th ...

6 Spoken dialogue technology: enabling the conversational user interface

March 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 1

Full text available: pdf(987.69 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Spoken dialogue systems allow users to interact with computer-based applications such as databases and expert systems by using natural spoken language. The origins of spoken dialogue systems can be traced back to Artificial Intelligence research in the 1950s concerned with developing conversational interfaces. However, it is only within the last decade or so, with major advances in speech technology, that large-scale working systems have been developed and, in some cases, introduced into commerc ...

Keywords: Dialogue management, human computer interaction, language generation, language understanding, speech recognition, speech synthesis

7 Developing and prioritizing data processing applications for municipalities

Leland Blank, Sallie Nelson

January 1978 **Proceedings of the 1978 annual conference - Volume 2**

Full text available: pdf(599.09 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper presents a procedure for analyzing municipal information flows in order to identify discrete databases and prioritize their applications for time-phased implementation. Techniques of user communication and questionnaire design are discussed. The priorities result from specific factors which are used to numerically rate each database application area. The factors are identified and grouped into two categories: user input and implementation oriented. The databases are co ...

Keywords: Database applications, Database prioritization factors, Hardware configurations, Information classes, Information flow, Municipal computerization, Public administration, Time-phased implementation

8 The FINITE STRING Newsletter: Abstracts of current literature
Computational Linguistics Staff
January 1987 **Computational Linguistics**, Volume 13 Issue 1-2
Full text available: pdf(6.15 MB) Publisher Site Additional Information: full citation

9 Document Formatting Systems: Survey, Concepts, and Issues
Richard Furuta, Jeffrey Scofield, Alan Shaw
September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3
Full text available: pdf(5.36 MB) Additional Information: full citation, references, citings, index terms

10 A partially deadlock-free typed process calculus
Naoki Kobayashi
March 1998 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 20 Issue 2
Full text available: pdf(562.16 KB) Additional Information: full citation, references, citings, index terms

Keywords: concurrency, deadlock-freedom, type theory

11 Natural language processing for information assurance and security: an overview and implementations
Mikhail J. Atallah, Craig J. McDonough, Victor Raskin, Sergei Nirenburg
February 2001 **Proceedings of the 2000 workshop on New security paradigms**
Full text available: pdf(1.29 MB) Additional Information: full citation, references, citings, index terms

12 The constituent object parser: syntactic structure matching for information retrieval
Douglas P. Metzler, Stephanie W. Haas
July 1989 **ACM Transactions on Information Systems (TOIS)**, Volume 7 Issue 3
Full text available: pdf(2.16 MB) Additional Information: full citation, abstract, references, citings, index terms, review

The Constituent Object Parser is a shallow syntactic parser designed to produce dependency tree representations of syntactic structure that can be used to specify the intended meanings of a sentence more precisely than can the key terms of the sentence alone. It is intended to improve the precision/recall performance of information retrieval and similar text processing applications by providing more powerful matching procedures. The dependency tree representation and the relationship betwee ...

13 Special issue on natural language generation: Generating natural language summaries from multiple on-line sources
Dragomir R. Radev, Kathleen R. McKeown
September 1998 **Computational Linguistics**, Volume 24 Issue 3

Full text available: pdf(2.36 MB) Publisher Site Additional Information: full citation, abstract, references, citings

We present a methodology for summarization of news about current events in the form of briefings that include appropriate background (historical) information. The system that we developed, SUMMONS, uses the output of systems developed for the DARPA Message Understanding Conferences to generate summaries of multiple documents on the same or related events, presenting similarities and differences, contradictions, and generalizations among sources of information. We describe the various components ...

14 An Assessment of Techniques for Proving Program Correctness
Bernard Elspas, Karl N. Levitt, Richard J. Waldinger, Abraham Waksman
June 1972 **ACM Computing Surveys (CSUR)**, Volume 4 Issue 2

Full text available: pdf(4.36 MB) Additional Information: full citation, references, citings, index terms

15 Special issues on machine translation: A survey of machine translation: its history, current status, and future prospects
Jonathan Sloculn
January 1985 **Computational Linguistics**, Volume 11 Issue 1

Full text available: pdf(2.12 MB) Publisher Site Additional Information: full citation, abstract, references, citings, review

Elements of the history, state of the art, and probable future of Machine Translation (MT) are discussed. The treatment is largely tutorial, based on the assumption that this audience is, for the most part, ignorant of matters pertaining to translation in general, and MT in particular. The paper covers some of the major MT R&D groups, the general techniques they employ(ed), and the roles they play(ed) in the development of the field. The conclusions concern the seeming permanence of the translat ...

16 Specification-based test oracles for reactive systems
Debra J. Richardson, Stephanie Leif Aha, T. Owen O'Malley
June 1992 **Proceedings of the 14th international conference on Software engineering**

Full text available: pdf(1.74 MB) Additional Information: full citation, references, citings, index terms

17 Dissertation Abstracts in Computer Graphics
January 1992 **ACM SIGGRAPH Computer Graphics**, Volume 26 Issue 1

Full text available: pdf(2.53 MB) Additional Information: full citation

18 Precedent-based legal reasoning and knowledge acquisition in contract law: A process

model
S. R. Goldman, M. C. Dyer, M. Flowers
December 1987 **Proceedings of the first international conference on Artificial intelligence and law**
Full text available: pdf(1.63 MB) Additional Information: full citation, abstract, references, citings, index terms

In the law, decisions in previous cases play a significant role in the presentation, understanding, and outcome of new cases. This is particularly true in the area of contract law where few statutes (explicit legal rules) exist. When presented with a new case, a lawyer must be able to identify important issues and make some predictions about how the case might be decided. The lawyer will often recall past cases which bear similarities to the current case and reason analogically to make thes ...

19 The berkeley UNIX consultant project
Robert Wilensky, David N. Chin, Marc Luria, James Martin, James Mayfield, Dekai Wu
December 1988 **Computational Linguistics**, Volume 14 Issue 4
Full text available: pdf(4.41 MB) Publisher Site Additional Information: full citation, abstract, references, citings

UC (UNIX Consultant) is an intelligent, natural language interface that allows naive users to learn about the UNIX^2 operating system. UC was undertaken because the task was thought to be both a fertile domain for artificial intelligence (AI) research and a useful application of AI work in planning, reasoning, natural language processing, and knowledge representation.The current implementation of UC comprises the following components: a language analyzer, called ALANA, produces a repre ...

20 Machine Translation: its history, current status, and future prospects
Jonathan Slocum
July 1984
Full text available: pdf(1.69 MB) Publisher Site Additional Information: full citation, abstract, references, citings

Elements of the history, state of the art, and probable future of Machine Translation (MT) are discussed. The treatment is largely tutorial, based on the assumption that this audience is, for the most part, ignorant of matters pertaining to translation in general, and MT in particular. The paper covers some of the major MT R&D groups, the general techniques they employ(ed), and the roles they play(ed) in the development of the field. The conclusions concern the seeming permanence of the translat ...

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